

5/N 09/ J00, 655

1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 97/01948

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC6: A63B 23/04, A63B 23/02  
According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC6: A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 882181 A (J.P. THOMAS), 17 March 1908 (17.03.08), page 1, line 74 - line 89; page 2 --	1,3-6
A	US 4371162 A (R.P. HARTZELL), 1 February 1983 (01.02.83), column 2, line 36 - line 52, figures 1, 2 --	1,3-5,9,10
A	US 2097376 A (J.H. MARSHMAN), 26 October 1937 (26.10.37), page 1, column 1, line 39 - line 41; column 1, line 55 - column 2, line 19, figure 1 --	1,5

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

5 March 1998

10 -03- 1998

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Christer Bäcknert  
Telephone No. +46 8 782 25 00

2  
INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 97/01948

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 1663641 A (G.S. SMALLWOOD), 27 March 1928 (27.03.28), page 1, line 36 - line 76; page 1, line 97 - line 111, figure 2  --	5
A	SE 459902 B (T. AHRLING), 21 August 1989 (21.08.89), page 2, line 26 - line 29; page 3, line 8 - line 15, figure 6  --	1,4,5
A	DE 4430042 A1 (FÖRDERVEREIN INSTITUT FÜR MEDIZINTECHNIK DRESDEN EV), 9 March 1995 (09.03.95), column 2, line 40 - column 3, line 9, figure 1  --	1
A	US 5207626 A (A.R. EINHORN ET AL), 4 May 1993 (04.05.93), column 2, line 65 - column 3, line 7, figures 1,2,4  -- -----	1,3,5,6,9,10

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

03/02/98

International application No.

PCT/SE 97/01948

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	882181	A	17/03/08	NONE	
US	4371162	A	01/02/83	NONE	
US	2097376	A	26/10/37	NONE	
US	1663641	A	27/03/28	NONE	
SE	459902	B	21/08/89	SE 8501868 A	18/10/86
DE	4430042	A1	09/03/95	NONE	
US	5207626	A	04/05/93	NONE	